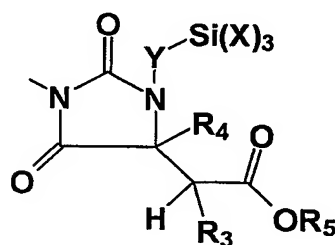
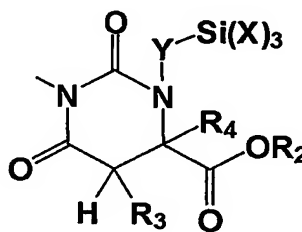


WHAT IS CLAIMED IS:

1. A moisture-curable, polyether urethane having terminal cyclic urea/reactive silane groups and comprising
- 5 a) 20 to 100% by weight, based on the weight of a) and b), of a polyether urethane containing two or more terminal cyclic urea/reactive silane groups and one or more polyether segments, wherein the polyether segments have a number average molecular weight of at least 3000 and a degree of unsaturation of less than 0.04 milliequivalents/g, provided that the sum of the number
- 10 average molecular weights of all of the polyether segments per molecule averages 6000 to 20,000, and wherein the terminal cyclic urea/reactive silane groups correspond to formula VIII and/or IX



Formula VIII



Formula IX

wherein

- X represents identical or different organic groups which are inert to isocyanate groups below 100°C, provided that at least two of these groups are alkoxy or acyloxy groups,
- 20 Y represents a linear or branched alkylene group containing 1 to 8 carbon atoms,
- R₂ and R₅ are identical or different and represent organic groups which are inert to isocyanate groups at a temperature of
- 25 100°C or less and

R₃ and R₄ are identical or different and represent hydrogen or organic groups which are inert towards isocyanate groups at a temperature of 100°C or less, and

5 b) 0 to 80% by weight, based on the weight of a) and b), of a polyether urethane containing one reactive silane group and one or more polyether segments having a number average molecular weight of 1000 to 15,000.

10 2. The polyether urethane of Claim 1 wherein X represents identical or different alkoxy groups having 1 to 4 carbon atoms,

Y represents a linear radical containing 2 to 4 carbon atoms or a branched radical containing 5 to 6 carbon atoms,

R₂ and R₅ are identical or different and represent alkyl groups having 1 to 4 carbon atoms and

15 R₃ and R₄ represent hydrogen.

3. The polyether urethane of Claim 1 wherein the reactive silane group of component b) comprises a terminal cyclic urea/reactive silane group corresponding to formula VIII or IX.

20 4. The polyether urethane of Claim 2 wherein the reactive silane group of component b) comprises a terminal cyclic urea/reactive silane group corresponding to formula VIII or IX.

25 5. The polyether urethane of Claim 1 wherein polyether urethane a) is present in an amount of 20 to 90% by weight and polyether urethane b) is present in an amount of 10 to 80% by weight, wherein the percentages are based on the weight of a) and b).

30 6. The polyether urethane of Claim 2 wherein polyether urethane a) is present in an amount of 20 to 90% by weight and polyether urethane b) is present in an amount of 10 to 80% by weight, wherein the percentages are based on the weight of a) and b).

7. The polyether urethane of Claim 3 wherein polyether urethane a) is present in an amount of 20 to 90% by weight and polyether urethane b) is present in an amount of 10 to 80% by weight, wherein the percentages are based on the weight of a) and b).
- 5 8. The polyether urethane of Claim 4 wherein polyether urethane a) is present in an amount of 20 to 90% by weight and polyether urethane b) is present in an amount of 10 to 80% by weight, wherein the percentages are based on the weight of a) and b).
- 10 9. The polyether urethane of Claim 1 wherein polyether urethane a) is present in an amount of 30 to 80% by weight and polyether urethane b) is present in an amount of 20 to 70% by weight, wherein the percentages are based on the weight of a) and b).
- 15 10. The polyether urethane of Claim 2 wherein polyether urethane a) is present in an amount of 30 to 80% by weight and polyether urethane b) is present in an amount of 20 to 70% by weight, wherein the percentages are based on the weight of a) and b).
- 20 11. The polyether urethane of Claim 3 wherein polyether urethane a) is present in an amount of 30 to 80% by weight and polyether urethane b) is present in an amount of 20 to 70% by weight, wherein the percentages are based on the weight of a) and b).
- 25 12. The polyether urethane of Claim 4 wherein polyether urethane a) is present in an amount of 30 to 80% by weight and polyether urethane b) is present in an amount of 20 to 70% by weight, wherein the percentages are based on the weight of a) and b).
- 30 13. The polyether urethane of Claim 1 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
14. The polyether urethane of Claim 2 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

15. The polyether urethane of Claim 3 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

5 16. The polyether urethane of Claim 4 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

10 17. The polyether urethane of Claim 5 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

15 18. The polyether urethane of Claim 6 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

20 19. The polyether urethane of Claim 7 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

20. The polyether urethane of Claim 8 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

25 21. The polyether urethane of Claim 9 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

30 22. The polyether urethane of Claim 10 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

23. The polyether urethane of Claim 11 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

5 24. The polyether urethane of Claim 12 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

10 25. A sealant, adhesive or coating composition containing the moisture-curable, alkoxysilane-functional polyether urethane of Claim 1.